

Abstract of the Disclosure

A microstrip patch antenna having high gain and wide band is disclosed. The microstrip patch antenna includes:
5 a first patch antenna layer for radiating a energy supplied from transmitting/receiving feeding circuit and a first radiation patch electrically coupled to the first dielectric layer and supplying the energy to a receiving feeding circuit electrically coupled with the first
10 radiation patch, wherein the energy is supplied by electromagnetic coupling of a first parasitic patch and second parasitic patch; a second patch antenna layer for improving impedance bandwidth of energy received through the first parasitic patch arranged in between the second
15 dielectric layer and the third dielectric layer and radiating the improved impedance bandwidth; and a third patch antenna layer for improving a gain of the energy received through the second parasitic patch arraigned in between the fourth dielectric layer and the fifth
20 dielectric layer.